

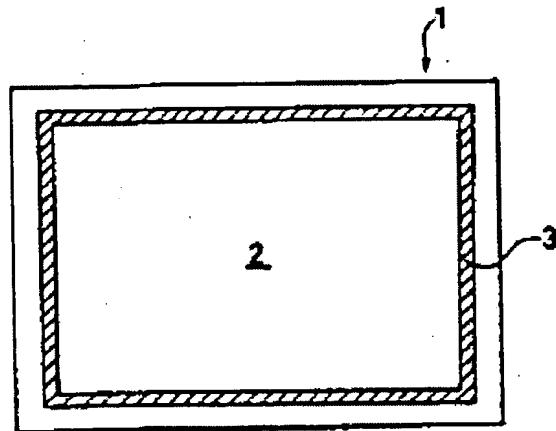
SOLID-STATE IMAGE SENSING DEVICE

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- **international:** H01L27/14; H04N5/335
- **european:**
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Report a data error here**Abstract of JP63143862**

PURPOSE: To improve the implementation of the compact configuration and the light weight of a camera and the like and to improve the detecting accuracy of the amount of exposure, by arranging a photodetector for detecting the amount of exposure around an area sensor, and forming the photodetector and the area sensor on the same substrate as a unitary body.

CONSTITUTION: An area sensor 2 is formed at the central part of a semiconductor substrate 1. An annular photodetector 3 is formed around the area sensor 2. The area sensor 2 is constituted with many picture element comprising CCDs and MOS type image sensing elements. The photodetector 3 is formed with a photodiode, a CCD, a phototransistor or the like. This solid-state image sensing is arranged on the light receiving plane of an optical system as in ordinary cameras, industrial cameras and the like. Signals generated in the picture element in the area sensor 2 are read out through horizontal scanning. Measurement of light for exposure is performed by the photodetector 3. The amount of stop and the shutter speed in the optical system are controlled based on the result. In this way, the photodetector 3 is close to the area sensor 2, which performs actual photographing, and located on the same plane (light receiving plane). Thus the amount of the light around the area sensor 2 is detected. Therefore, the amount of exposure can be detected highly accurately.



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